



STIC Search Report

EIC 2100

STIC Database Tracking Number: 111765

TO: Nathan Hillary
Location: 3C19
Art Unit : 2176
Friday, January 09, 2004

Case Serial Number: 09/708599

From: David Holloway
Location: EIC 2100
PK2-4B30
Phone: 308-7794

david.holloway@uspto.gov

Search Notes

Dear Examiner Hillary,

Attached please find your search results for above-referenced case.
Please contact me if you have any questions or would like a re-focused search.

David



STIC EIC 2100 111765

Search Request Form

Today's Date:

1/9/04

What date would you like to use to limit the search?

Priority Date: 1/19/99

Other:

Name Nathan Hillary

AU 2146

Examiner # 73871

Room # 3C19

Phone 5-4502

Serial # 08/708,588

Format for Search Results (Circle One):

PAPER DISK EMAIL

Where have you searched so far?

USP DWPI EPO JPO ACM IBM TDB

IEEE INSPEC SPI Other

Is this a "Fast & Focused" Search Request? (Circle One) YES NO

A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at <http://ptoweb/patents/stic/stic-tc2100.htm>.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

generating an abstract link (e.g. hyperlink)
file two documents using a Horn clause
predicate expression; backtrack evaluation
and calculation to bind a variable; and
an atom predicate. These are used in
Prolog. Claims 1-4

STIC Searcher David Holloway Phone 388-7794

Date picked up 1-9-04 Date Completed 1-9-04



Dialog \$530 8%

36 min. 60 min.

Set	Items	Description
S1	2714440	LINK? OR HYPERLINK? OR REFER?
S2	19379	HORN()CLAUSE? OR HORNCLAUSE? OR PREDICAT?
S3	280749	BACKTRACK? OR BACK()TRACK? OR REVERSE?
S4	2	ATOM?() PREDICAT?
S5	4469348	HTML? OR MARKUP()LANGUAGE? OR XML OR HYPERTEXT? OR WWW OR -
S6	17	ABSTRACT()LINK?
S7	1	S6 AND (S2 OR S3)
S8	13	S5 AND S6
S9	1037	S1(S)S2
S10	13	S8(S)(S5 OR S3)
S11	19	S4 OR S6 OR S8 OR S10
S12	15	RD (unique items)
S13	7	S12 NOT PY>1999
S14	7	S13 NOT PD>19991109
File 647:cmp	Computer Fulltext 1988-2004/Dec W4	
	(c) 2004 CMP Media, LLC	
File 674:Computer News	Fulltext 1989-2004/Jan W1	
	(c) 2004 IDG Communications	
File 275:Gale Group Computer DB(TM)	1983-2004/Jan 09	
	(c) 2004 The Gale Group	
File 160:Gale Group PROMT(R)	1972-1989	
	(c) 1999 The Gale Group	
File 16:Gale Group PROMT(R)	1990-2004/Jan 09	
	(c) 2004 The Gale Group	
File 148:Gale Group Trade & Industry DB	1976-2004/Jan 09	
	(c) 2004 The Gale Group	
File 636:Gale Group Newsletter DB(TM)	1987-2004/Jan 09	
	(c) 2004 The Gale Group	

Set	Items	Description
S1	2052741	LINK? OR HYPERLINK? OR REFER?
S2	29425	HORN()CLAUSE? OR HORNCLAUSE? OR PREDICAT?
S3	462240	BACKTRACK? OR BACK()TRACK? OR REVERSE?
S4	30	ATOM?()PREDICAT?
S5	84140	HTML? OR MARKUP()LANGUAGE? OR XML OR HYPERTEXT? OR WWW OR -
S6	12	ABSTRACT()LINK?
S7	0	S6 AND (S2 OR S3)
S8	1	S5 AND S6
S9	12	S6 NOT S7
S10	2014	S1 AND S2
S11	29	S5 AND S10
S12	408	S5 AND S3
S13	81	S12 AND S1
S14	0	(S4 OR S6) AND S13
S15	4	S2 AND S13
S16	0	CLAUSE? AND S13
S17	12	S6 AND (S1 OR S5)
S18	1	S4 AND (S1 OR S5)
S19	42	S8 OR S9 OR S11 OR S15 OR S17 OR S18
S20	35	RD (unique items)
S21	20	S20 NOT PY>1999
S22	19	S21 NOT PD>19991109
File	8:Ei Compendex(R) 1970-2004/Dec W4	
	(c) 2004 Elsevier Eng. Info. Inc.	
File	35:Dissertation Abs Online 1861-2003/Nov	
	(c) 2003 ProQuest Info&Learning	
File	202:Info. Sci. & Tech. Abs. 1966-2003/Nov 17	
	(c) 2003 EBSCO Publishing	
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	(c) 2003 Institution of Electrical Engineers	
File	94:JICST-EPlus 1985-2004/Jan W1	
	(c) 2004 Japan Science and Tech Corp(JST)	
File	111:TGG Natl.Newspaper Index(SM) 1979-2004/Jan 07	
	(c) 2004 The Gale Group	
File	233:Internet & Personal Comp. Abs. 1981-2003/Sep	
	(c) 2003 EBSCO Pub.	
File	144:Pascal 1973-2003/Dec W2	
	(c) 2003 INIST/CNRS	
File	434:SciSearch(R) Cited Ref Sci 1974-1989/Dec	
	(c) 1998 Inst for Sci Info	
File	34:SciSearch(R) Cited Ref Sci 1990-2004/Jan W1	
	(c) 2004 Inst for Sci Info	
File	99:Wilson Appl. Sci & Tech Abs 1983-2003/Nov	
	(c) 2003 The HW Wilson Co.	

01669872 ORDER NO: AAD99-06991

A FOLDER ORGANIZATION MODEL FOR OFFICE INFORMATION SYSTEMS: EXPLORING ITS ARCHITECTURAL EXPRESSIVE POWER AND PREDICATE-BASED FILING (MODEL TRANSFORMATION)

Author: DOONG, SIMON

Degree: PH.D.

Year: 1998

Corporate Source/Institution: NEW JERSEY INSTITUTE OF TECHNOLOGY (0152)

Source: VOLUME 59/09-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 4920. 133 PAGES

Descriptors: COMPUTER SCIENCE ; BUSINESS ADMINISTRATION, MANAGEMENT ; INFORMATION SCIENCE

Descriptor Codes: 0984; 0454; 0723

This dissertation presents an Internal Folder Organization (I-ORG) which supplements the architectural deficiencies of the existing model--the User Folder Organization (U-ORG), to electronically model a person's filing system in the modern office environment. An I-ORG folder organization gives a logical representation of how documents of the same or different kinds are related and grouped into folders based on predefined premises. Our model is represented by a Rooted Direct Acyclic Graph (RDAG). Each node in the graph represents a folder; and folders are related by "subfolder relationship" (for capturing the "and" relation) and "virtual-folder relationship" (for capturing the "or" relation). Each folder in the organization has a criterion, specifying in terms of a local predicate, which governs the document filing for that folder. The dissertation also investigates how the new model demonstrates its architectural support in the four functional areas: (1) Construction - It reduces the complexity of predicate specifications; (2) Filing - It improves the performance of document distribution; (3) Retrieving - It facilitates system responsiveness to queries, especially for the documents which are frequently requested by the user; and (4) Reorganization - It reduces the volume of documents to be redistributed when the folder organization is modified. The justifications of our model in possession of critical architectural attributes to support the above functions efficiently and effectively are presented throughout this dissertation, which lead us to draw an initial conclusion--our proposed model is architecturally superior over the other representative models.

In comparison with the I-ORG, which is operational more efficient, the U-ORG has its simplicity because it maintains only a single type of link. Therefore, the implementation of the system can have two models which represent the folder organization at two different levels: the user interface level (or the external representation using U-ORG), and the system execution level (or the internal representation using I-ORG). Interoperabilities between the two models needs to be well-coordinated and kept transparent to the user while the system optimizes its performance by utilizing the architectural strength from both models.

The dissertation also investigates the transformation between the two models and proposes a step-locked reduction algorithm to accomplish that task. This transformation capability provides to the user more flexibilities to specify predicates when his folder organization is created and represented by an U-ORG. This U-ORG is transformed and fine-tuned into a content-equivalent folder organization represented by an I-ORG, which optimizes the overall predicate structure to help improve the functional performance. In such a final representation, each folder in the organization only associates with a single atomic predicate .

22/5/6 (Item 4 from file: 35)
DIALOG(R)File 35:Dissertation Abs Online
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01165266 ORDER NO: AAD91-21157

**AN INTELLIGENT PATH MECHANISM IN HYPERTEXT : INFORMATION FILTERING USING
ARTIFICIAL INTELLIGENCE IN A COOPERATIVE PROBLEM-SOLVING ENVIRONMENT**

Author: RODGERS, CHERYL WILEY

Degree: PH.D.

Year: 1990

Corporate Source/Institution: THE UNIVERSITY OF TEXAS AT ARLINGTON (2502
)

Supervisor: LYNN L. PETERSON

Source: VOLUME 52/02-B OF DISSERTATION ABSTRACTS INTERNATIONAL.

PAGE 938. 190 PAGES

Descriptors: COMPUTER SCIENCE; ARTIFICIAL INTELLIGENCE

Descriptor Codes: 0984; 0800

In recent years researchers have begun experimenting with coupling executable code with **hypertext** to transform what was once considered a basically passive medium into an active one. The cooperative problem solving application described in this paper performs two functions. The first is algorithmic problem solving; the second provides online **reference** material on demand during a problem solving session. The algorithmic problem solver was implemented using an intelligent path embedded in a **hypertext** document. The path itself represented the basic design algorithm of the application domain; procedures attached to the path nodes complete the problem solving function.

Online domain specific **reference** material is available at any point during a problem solving session to provide assistance to the user. If the **reference** material is used during a problem solving session, a filtering mechanism is available to control navigational access in the **hypertext** document. Filtering has the effect of pruning the search space available for browsing thereby focusing the user on material that is pertinent to the task at hand.

Hypertext systems have been described as consisting of three components: file access, **hypertext** representation, and user interface. The research reported in this paper describes the use of a fourth component which applies **predicates** to node and **link** attributes to produce indices for the purpose of achieving information filtering as means of managing navigational access in a **hypertext** network.

Both the intelligent path mechanism and the information filtering mechanism are described in this paper.

22/5/8 (Item 1 from file: 2)
DIALOG(R)File 2:INSPEC
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5045168 INSPEC Abstract Number: C9510-7250-007
Title: Modelling hypermedia retrieval in Datalog
Author(s): Fuhr, N.
Author Affiliation: Dortmund Univ., Germany
Conference Title: Hypertext - Information Retrieval - Multimedia.
Proceedings HIM '95 p.163-74
Editor(s): Kuhlen, R.; Rittberger, M.
Publisher: Universitätsverlag Konstanz, Konstanz, Germany
Publication Date: 1995 Country of Publication: West Germany 337 pp.
ISBN: 3 87940 509 3
Conference Title: Hypertext - Information Retrieval - Multimedia
Conference Date: 5-7 April 1995 Conference Location: Konstanz, Germany
Language: English Document Type: Conference Paper (PA)
Treatment: Theoretical (T)
Abstract: We take a logical approach to information retrieval in order to identify and describe new concepts required for performing hypermedia retrieval. For this purpose, we consider **hypertext linking** of nodes, hierarchical structure of documents and document type hierarchies. These concepts are described in Datalog, a horn logic without functions. Furthermore, we discuss terminological inference and propose a new approach for its application in retrieval, for which we also describe the mapping into Datalog formulas. It turns out that this logic is able to express most of the concepts, but that a higher-level language would be more appropriate for hypermedia retrieval. (12 Refs)
Subfile: C
Descriptors: DATALOG; Horn clauses ; hypermedia; information retrieval ; multimedia computing
Identifiers: hypermedia retrieval modelling; Datalog; information retrieval; **hypertext node linking** ; hierarchical document structure; document type hierarchies; horn logic; terminological inference; Datalog formulas
Class Codes: C7250 (Information storage and retrieval); C6130M (Multimedia); C4210 (Formal logic)
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22/5/9 (Item 2 from file: 2)
DIALOG(R)File 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

4462899 INSPEC Abstract Number: C9309-6160S-015

Title: Logic and writing: experiments on the logical structuring of hypertext documents

Author(s): O'Brian Holt, P.; Howell, G.; Gjengendal, J.

Author Affiliation: Scottish HCI Centre, Heriot-Watt Univ., Edinburgh, UK

Conference Title: Proceedings of the Fourth Annual Conference on Computers and the Writing Process p.190-7

Publisher: Univ. Sussex, Brighton, UK

Publication Date: 1991 Country of Publication: UK v+247 pp.

Conference Date: 22-23 March 1991 Conference Location: Brighton, UK

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Experimental (X)

Abstract: An experiment attempting to analyse **hypertextual semantic linkings** is conducted. Participants are asked to describe logical relationships between related, semirelated and unrelated paragraphs of text. It is concluded that existence and 'themes' of relationships are (as expected) fairly consistently recognised, however specific relationships do not readily fall into 'natural' **predicates**. Purely 'thematic' relationships, or a 'palette' of available relationships might be the more practical approach. (10 Refs)

Subfile: C

Descriptors: hypermedia; linguistics; word processing

Identifiers: document structuring; word processing; **hypertextual semantic linkings**

Class Codes: C6160S (Spatial and pictorial databases); C7820 (Humanities)
)

22/5/11 (Item 4 from file: 2)
DIALOG(R) File 2:INSPEC
(c) 2003 Institution of Electrical Engineers. All rts. reserv.

04076903 INSPEC Abstract Number: C9203-6140D-007

Title: A logical query language for hypertext systems

Author(s): Beeri, C.; Kornatzky, Y.

Author Affiliation: Dept. of Comput. Sci., Hebrew Univ., Jerusalem, Israel

Conference Title: Hypertext: Concepts, Systems and Applications.
Proceedings of the First European Conference on Hypertext p.67-80

Editor(s): Streitz, N.; Rizk, A.; Andre, J.

Publisher: Cambridge University Press, Cambridge, UK

Publication Date: 1990 Country of Publication: UK x+373 pp.

ISBN: 0 521 40517 3

Conference Date: 27-30 Nov. 1990 Conference Location: Versailles, France

Language: English Document Type: Conference Paper (PA)

Treatment: Practical (P); Theoretical (T)

Abstract: The search capabilities of **hypertext** systems are limited to retrieving collections of nodes and **links** based on **predicates** on their attributes contents. To support sophisticated applications and user-tailored views of a **hypertext** document, we need a query language able to retrieve parts of a **hypertext** based on a specification of their structure. The authors present a logical query language permitting the formulation of such structural queries over **hypertext**. While the language is propositional, it includes a general notion of quantifier of the form appropriate for **hypertext** networks. Quantifiers are used for expressing formulas of the form: 'For most paths from the current node, claim X holds'. In particular, most quantified assertions in natural language are directly represented in the logic. Formulas in the language are used for a declarative definition of sophisticated user-tailored views of a **hypertext** document. (14 Refs)

Subfile: C

Descriptors: directed graphs; formal logic; hypermedia; natural languages ; query languages

Identifiers: information retrieval; directed graphs; search capabilities; **hypertext** systems; nodes; **links** ; **predicates** ; logical query language; structural queries; general notion of quantifier; natural language

Class Codes: C6140D (High level languages); C6160Z (Other DBMS); C7250 (Information storage and retrieval); C4210 (Formal logic)

22/5/14 (Item 7 from file: 2)
DIALOG(R) File 2:INSPEC
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02597404 INSPEC Abstract Number: C86011592

Title: Required features of the artificial intelligence sensors

Author(s): Masnikosa, V.P.

Author Affiliation: Mihailo Pupin Inst., Belgrade, Yugoslavia

Journal: Automatika vol.26, no.3-4 p.167-70

Publication Date: 1985 Country of Publication: Yugoslavia

CODEN: ATKAAC ISSN: 0005-1144

Language: English Document Type: Journal Paper (JP)

Treatment: Theoretical (T)

Abstract: The place and role of the artificial intelligence sensors for the artificial intelligence (AI) based upon the **abstract linking space** (ALS) are considered. The need for establishing a solid contact of the ALS with the object during the learning process, through which the requests for the realization of the sensors are manifested, is described. Taking the studies of natural accomplishments as the basis, some limitations are presented in respect to the decomposition of the action upon the sensor contact surface, its intensity, and the need for forecasting the movement of the sensors. In addition to the requirements mentioned, the technical realization of the sensors is given. The possibility for designing such sensors is considered. (13 Refs)

Subfile: C

Descriptors: artificial intelligence; learning systems

Identifiers: **abstract linking space**; movement forecasting; neurocybernetics; artificial intelligence sensors; learning; limitations; sensor contact surface; intensity; technical realization

Class Codes: C1230 (Artificial intelligence)

22/5/16 (Item 1 from file: 94)
DIALOG(R)File 94:JICST-EPlus
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02773492 JICST ACCESSION NUMBER: 96A0736605 FILE SEGMENT: JICST-E
An Application Interface for Page Image Document Databases based on the
Entity-Relationship model.

KATAYAMA NORIO (1); ADACHI JUN (1)
(1) Nat. Center for Sci. Inf. Syst.

Denshi Joho Tsushin Gakkai Gijutsu Kenkyu Hokoku(IEIC Technical Report
(Institute of Electronics, Information and Communication Engineers),
1996, VOL.96, NO.176(DE96 24-53), PAGE.159-164, FIG.4, REF.6

JOURNAL NUMBER: S0532BBG

UNIVERSAL DECIMAL CLASSIFICATION: 681.3:061.68 681.51:007.51

LANGUAGE: Japanese COUNTRY OF PUBLICATION: Japan

DOCUMENT TYPE: Journal

ARTICLE TYPE: Original paper

MEDIA TYPE: Printed Publication

ABSTRACT: Recently, the combination of a page image document database and a
WWW user interface is widely used for digital libraries. Basically,
such system can be constructed by writing all required HTML
documents. However, it is necessary to generate them dynamically for
flexible implementation. There are two problems for generating HTML
documents: how to identify document components and how to retrieve
hyperlink information from a database. To solve these problems, we
applied the entity-relationship model to the application interface of a
page image document database. By employing the first-order predicate
logic, we simplifies notations of queries and derivation rules, and
achieves an application interface having declarative semantics. (author
abst.)

DESCRIPTORS: database; user interface; document management; **predicative**
logic; library service; entity relation model; image; library; document
image; image database; electronic library

BROADER DESCRIPTORS: interface; documentation; information management;
management; logic; information service; service; data model; model

CLASSIFICATION CODE(S): JD03030U; IB03000G

22/5/18 (Item 1 from file: 34)
DIALOG(R)File 34:SciSearch(R) Cited Ref Sci
(c) 2004 Inst for Sci Info. All rts. reserv.

03029345 Genuine Article#: MX061 Number of References: 37
Title: A LOGICAL QUERY LANGUAGE FOR HYPERMEDIA SYSTEMS
Author(s): BEERI C; KORNATZKY Y
Corporate Source: HEBREW UNIV JERUSALEM, DEPT COMP SCI/IL-91904
JERUSALEM//ISRAEL/; BEN GURION UNIV NEGEV, DEPT MATH & COMP SCI/IL-84105
BEER SHEVA//ISRAEL/
Journal: INFORMATION SCIENCES, 1994, V77, N1-2 (MAR), P1-37
ISSN: 0020-0255
Language: ENGLISH Document Type: ARTICLE
Geographic Location: ISRAEL
Subfile: SciSearch; CC ENGI--Current Contents, Engineering, Technology & Applied Sciences
Journal Subject Category: COMPUTER SCIENCE, INFORMATION SYSTEMS
Abstract: Hypermedia systems store interlinked collections of information of various media such as text, image, voice, and animation. Such interlinked collections of information, called hyperdocuments, generalize conventional paper documents by directly representing the conceptual structure of the information, a graph whose nodes represent information chunks, and whose links represent the organizational structure of the information. The search capabilities of current hypermedia systems are limited to retrieving individual nodes and links based on predicates on their local attributes and contents. To support sophisticated applications and user-tailored views of a hyperdocument, we need a query language able to retrieve parts of a hyperdocument based on a specification of their structure. We present a logical query language permitting the formulation of such structural queries over hyperdocuments. The language is based on propositional modal logic, and admits a simple and efficient implementation over available hypermedia storage systems. While the language is propositional, it includes a general notion of quantifier of the form appropriate for hyperdocument graphs; quantifiers are used for expressing assertions of the form: 'For most paths from the current node, claim X holds.'
Identifiers--KeyWords Plus: TEMPORAL LOGIC; HYPERTEXT
Research Fronts: 92-1723 002 (OBJECT-ORIENTED LOGIC PROGRAMMING SYSTEM; LINEAR RECURSIVE QUERIES IN DEDUCTIVE DATABASES; ARCHITECTURAL SUPPORT FOR GOAL MANAGEMENT)
92-2204 002 (HUMAN-COMPUTER INTERACTION; HYPERTEXT SYSTEMS; TEXT RETRIEVAL MODELS; INFORMATION FILTERING METHODS)
92-2912 001 (OBJECT-ORIENTED DESIGN; SOFTWARE SYSTEMS; REAL-TIME PROPERTIES)
Cited References:
AFRATI F, 1990, P52, HYPERTEXT CONCEPTS S
AHO A, 1979, P110, 6TH P ACM S PRINC PR
ASTRAHAN MM, 1976, V1, P97, ACM T DATABASE SYSTE
ATKINSON M, 1989, P40, 1ST P INT C DED OBJ
BANCILHON F, 1986, P1, 5TH P ACM S PRINC DA
BARWISE J, 1981, V4, P159, LINGUIST PHILOS
CAMPBELL B, 1988, V31, P856, COMMUN ACM
CAONSENS M, 1990, P379, INT C DATABASE THEOR
CLARKE E, 1981, P WORKSHOP LOGIC PRO
CLARKE EM, 1986, V8, P244, ACM T PROGR LANG SYS
CLIFTON C, 1990, P36, P INT C VERY LARGE D
CONKLIN J, 1988, V6, P303, ACM T OFFIC INFORM S
CONKLIN J, 1987, V20, P17, IEEE COMPUT
CONSENS M, 1989, P269, 2ND P ACM HYP C
CONSENS M, 1990, P404, 9TH P ACM SIGACT SIG
CROFT WB, 1989, P213, HYPERTEXT 89 P
DELISLE N, 1986, P132, ACM SIGMOD INT C MAN
DEUX O, 1991, V34, P34, COMMUN ACM
EMERSON E, 1981, P169, P INT C AUTOMATA LAN
EMERSON EA, 1985, V30, P1, J COMPUT SYST SCI
EVEN S, 1979, GRAPH ALGORITHMS
FRISSE ME, 1988, V31, P880, COMMUN ACM

GARG PK, 1988, V31, P862, COMMUN ACM
GOLBE C, 1992, P39, MAR P INT C EXT DATA
HALASZ FG, 1988, V31, P836, COMMUN ACM
Kripke SA, 1959, V24, P1, J SYMBOLIC LOGIC
LUCARELLA D, 1990, P81, HYPERTEXT CONCEPTS S
MANNINO M, 1990, V2, P353, IEEE T KNOWL DATA EN
MC CALL R, 1990, P152, HYPERTEXT CONCEPTS S
PEARL A, 1989, P137, P ACM HYPERTEXT C
SCHUTT H, 1990, P95, HYPERTEXT CONCEPTS S
STOTTS PD, 1989, V7, P3, ACM T INFORM SYST
TOMPA FW, 1989, V7, P85, ACM T INFORM SYST
ULLMAN JD, 1985, V10, P289, ACM T DATABASE SYST
ULLMAN JD, 1988, PRINCIPLES DATABASE
UTTING K, 1989, V7, P58, ACM T INFORM SYST
VARDI MY, 1982, P137, P ACM SIGACT S THEOR

Set	Items	Description
S1	981534	LINK? OR HYPERLINK? OR REFER?
S2	1203	HORN()CLAUSE? OR HORNCLAUSE? OR PREDICAT?
S3	311509	BACKTRACK? OR BACK()TRACK? OR REVERSE?
S4	1	ATOM()PREDICAT?
S5	186348	HTML? OR MARKUP()LANGUAGE? OR XML OR HYPERTEXT? OR WWW OR - DOCUMENT? OR PAGE? OR WEBPAGE? OR WEBSITE?
S6	2	ATOM?()PREDICAT?

S7 201 S1 AND (S2 OR S6)

S8 15 S7 AND S5

S9 7 S7 AND S3

S10 21 S8 OR S9

S11 19 S10 AND IC=G06F?

File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)

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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200402

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11/5/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO
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06907081 **Image available**
DEVICE FOR DESCRIBING DOCUMENT LINK , DEVICE FOR GENERATING DOCUMENT
LINK AND STORAGE MEDIUM

PUB. NO.: 2001-134606 [JP 2001134606 A]
PUBLISHED: May 18, 2001 (20010518)
INVENTOR(s): ODA TOSHIHIKO
APPLICANT(s): RICOH CO LTD
APPL. NO.: 11-317668 [JP 99317668]
FILED: November 09, 1999 (19991109)
INTL CLASS: G06F-017/30 ; G06F-012/00

ABSTRACT

PROBLEM TO BE SOLVED: To reduce work that describes a **document link** and to reduce the size of a **document** to be described.

SOLUTION: An abstract **link** description file is prepared so as to represent the **document link** by describing an abstract **link** in which a **link establishment** condition being a condition for deciding the **document link** that **links** the **document** file of a **link source** and the **document** file of a **link destination** by retrieving the **document** information of both the **document** files in the abstract **link** description file. The abstract **link** description file is also prepared so that the abstract **link** can describe the quality of **document** elements of the **document** files of the **link source** and **destination** on the basis of **Horn clause predicate** representation. The abstract **link** description file is further prepared so as to guide the **document** elements of the **document** files of the **link source** and **destination** from the **backtrack** calculation and the calculation performing variable restraint by retrieving the **document** information. The abstract **link** is described by using an **atom predicate**.

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11/5/3 (Item 3 from file: 347)
DIALOG(R) File 347:JAPIO
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06786867 **Image available**
COMPUTER SHARING TECHNOLOGY DICTIONARY

PUB. NO.: 2001-014348 [JP 2001014348 A]
PUBLISHED: January 19, 2001 (20010119)
INVENTOR(s): OTAWA KIMIAKI
APPLICANT(s): CHISHIKI SYSTEM KENKYUSHO KK
APPL. NO.: 11-224379 [JP 99224379]
FILED: July 01, 1999 (19990701)
INTL CLASS: G06F-017/30 ; G06F-015/167 ; G06F-017/22

ABSTRACT

PROBLEM TO BE SOLVED: To store the basic knowledge and relative knowledge of technical terms on computers, to enable the computers to transfer or process the stored knowledge, and to optionally take out them for use.

SOLUTION: The basic knowledge and relative knowledge of technical terms represented by a one-story **predicate** logical expression are stored while classified into three kinds of finite concept elements structured by use of a combination of a relative concept **link** and term nodes 2, 5, and 8. The basic knowledge of index words 1, 4, and 7 is stored in a star type concept element (a), the relative knowledge is stored in a tree type concept element (b), and associate knowledge is stored in a triangular concept element (c) respectively; when there is an inquiry about a specific index word, secondary derivative knowledge is created and provided in addition to the basic knowledge and relative knowledge in the original form. A **document** having no term limitation or a term of a knowledge base is replaced with a standard word, i.e., index word by means of a homonym standardizing function to improve the precision and the processing speed of knowledge processing.

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11/5/9 (Item 9 from file: 347)
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03441026 **Image available**
INTERFACE METHOD FOR PROLOG INTERPRETER COMPILER

PUB. NO.: 03-103926 [JP 3103926 A]
PUBLISHED: April 30, 1991 (19910430)
INVENTOR(s): OTSU YOSHIYUKI
 SUZUKI HIROSHI
 ISHIKAWA TAKASHI
 SATO HIDEKI
 ABE SHIGEO
APPLICANT(s): HITACHI LTD [000510] (A Japanese Company or Corporation), JP
 (Japan)
 HITACHI PROCESS COMPUT ENG INC [485525] (A Japanese Company
 or Corporation), JP (Japan)
APPL. NO.: 01-240638 [JP 89240638]
FILED: September 19, 1989 (19890919)
INTL CLASS: [5] **G06F-009/44**
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units)
JOURNAL: Section: P, Section No. 1232, Vol. 15, No. 300, Pg. 75, July
 30, 1991 (19910730)

ABSTRACT

PURPOSE: To improve the execution performance of a user **predicate** at the time of mixing and executing an interpreter code and a compiler code by directly informing an interface processing program, which controls mixing and execution of the interpreter code and the compiler code, of the presence or the absence of a **back track**.

CONSTITUTION: When a user inputs information 101 indicating the absence of a **back track** to a prolog language processing system 103 in some form by an input 102, the prolog language processing system 103 stores the absence of a **back track** in an interface flag 104. The interface flag 104 indicating the absence of a **back track** is provided in this manner, and the interface flag 104 is **referred** at the time of mixing and executing the interpreter code and the compiler code to skip the save processing of execution circumstances for **back track**. Thus, a user program is executed at the high speed.

11/5/10 (Item 10 from file: 347)
DIALOG(R) File 347:JAPIO
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02539342 **Image available**

INFORMATION PROCESSOR

PUB. NO.: 63-156242 [JP 63156242 A]
PUBLISHED: June 29, 1988 (19880629)
INVENTOR(s): NAGANUMA JIRO
OGURA TAKESHI
APPLICANT(s): NIPPON TELEGR & TELEPH CORP <NTT> [000422] (A Japanese
Company or Corporation), JP (Japan)
APPL. NO.: 61-303410 [JP 86303410]
FILED: December 19, 1986 (19861219)
INTL CLASS: [4] G06F-009/44 ; G06F-015/16 ; G06F-015/16
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);
45.4 (INFORMATION PROCESSING -- Computer Applications)
JOURNAL: Section: P, Section No. 783, Vol. 12, No. 422, Pg. 38,
November 09, 1988 (19881109)

ABSTRACT

PURPOSE: To improve the effect of parallel installation of processors and
the efficiency of execution control by providing each element processor of
a multiprocessor information processor with an associative memory for work
information storage.

CONSTITUTION: In an element processor 1, a **back track** stack 8 and a
predicate call stack 9 in a **predicate** processing part 6 and a bind
information stack 13 in an argument processing part 7 consist of
associative memories. Since work information is stored in the stack 13,
only bind information to be transferred is retrieved in case of load
distribution and only object bind information is transferred. Bind
information is accessed in each element processor 1 and between element
processors by associative access with two association keys of variable name
and inference depth to reduce the overhead for **reference**. Thus, the
effect of parallel installation of processors, and the execution control
efficiency are improved.

11/5/11 (Item 11 from file: 347)
DIALOG(R)File 347:JAPIO
(c) 2004 JPO & JAPIO. All rts. reserv.

02299143 **Image available**
LOGICAL LANGUAGE PROCESSOR

PUB. NO.: 62-216043 [JP 62216043 A]
PUBLISHED: September 22, 1987 (19870922)
INVENTOR(s): KONAGAYA AKIHIKO
APPLICANT(s): NEC CORP [000423] (A Japanese Company or Corporation), JP
(Japan)
APPL. NO.: 61-058071 [JP 8658071]
FILED: March 18, 1986 (19860318)
INTL CLASS: [4] G06F-009/44 ; G06F-007/28
JAPIO CLASS: 45.1 (INFORMATION PROCESSING -- Arithmetic Sequence Units);
45.2 (INFORMATION PROCESSING -- Memory Units)
JOURNAL: Section: P, Section No. 676, Vol. 12, No. 79, Pg. 23, March
12, 1988 (19880312)

ABSTRACT

PURPOSE: To suppress the occurrence of a redundant **back track**, to secure the faster processing and to reduce the memory consumption in a **back track** system for a logical language processor, by producing a **predicate** identifying frame in place of a selection point when a **predicate** has no substitute answer to attain an operator with a label.

CONSTITUTION: When a **predicate** (p:-q, r.) is called out by a question node, a selection point frame 210 containing a **predicate** identifier p/o (o: number of arguments) is produced by a selection point program production means 110 since a **predicate** (p- has a substitute answer. While a **predicate** identifier frame 220 having a **predicate** identifier q/o is produced by a **predicate** identifier frame production means 140 since a **predicate** (q) has no substitute answer in case a **predicate** (q:-t, u.) is called out. Then a **predicate** (t) is called out and a selection point frame 220 is produced in the same way. Under such conditions, a goal (w) fails and therefore a **back track** action is carried out to obtain the next substitute answer of the (p) by a **back track** executing means 130 by using the **back track** information stored in the final frame 210 if traced back from a link register 170.

11/5/12 (Item 1 from file: 350)
DIALOG(R) File 350:Derwent WPIX
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015442196 **Image available**
WPI Acc No: 2003-504338/200347
XRPX Acc No: N03-400492

Document requesting method, involves receiving one document requested by request and storing it in local storage that is local to one computer, and attempting to service user request from the local storage
Patent Assignee: BELLARE K G (BELL-I); DESAI S (DESA-I); SCHIRESON M (SCHI-I); ORACLE CORP (ORAC-N)

Inventor: BELLARE K G; DESAI S; SCHIRESON M

Number of Countries: 096 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 20030088580	A1	20030508	US 200111073	A	20011107	200347 B
WO 200340886	A2	20030515	WO 2002US35574	A	20021106	200347

Priority Applications (No Type Date): US 200111073 A 20011107

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 20030088580	A1	14		G06F-017/00	
WO 200340886	A2	E		G06F-000/00	

Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY CA CH CN CO CR CU CZ DE DK DM EE ES FI GB GD GE GH GM HR HU ID IL IN IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TR TT TZ UA UG UZ VN YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): US 20030088580 A1

NOVELTY - The method involves sending one request for one of the second documents referred by the identified references in a first document. The second document requested is received and stored in local storage of first computer. Service to a user request is done from the local storage and a third request is sent to the second computer for one of the second documents, which is not stored in the local storage.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for a computer configured to request documents from a computer over a computed network.

USE - Used for requesting documents to access a World Wide Web.

ADVANTAGE - The method improves the browsers by optimizing his or her navigation through web sites and efficiently delivers content to users. The method efficiently utilizes resources of the time and bandwidth.

DESCRIPTION OF DRAWING(S) - The drawing shows aspects of a method of pre-emptive and **predicative** page catching according to document requesting method.

pp; 14 DwgNo 2/4

Title Terms: DOCUMENT ; REQUEST; METHOD; RECEIVE; ONE; DOCUMENT ; REQUEST ; REQUEST; STORAGE; LOCAL; STORAGE; LOCAL; ONE; COMPUTER; ATTEMPT; SERVICE; USER; REQUEST; LOCAL; STORAGE

Derwent Class: T01

International Patent Class (Main): G06F-000/00 ; G06F-017/00

International Patent Class (Additional): G06F-015/167

File Segment: EPI

11/5/16 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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010849600 **Image available**

WPI Acc No: 1996-346553/199635

XRPX Acc No: N96-291845

Document reference appts. for e.g. word processor, office computer -
has reference memory that stores extended contents to input sentence
component based on analysis result, and reference unit which searches
document based on reference conditions corresp. to extended contents

Patent Assignee: MATSUSHITA DENKI SANGYO KK (MATU)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 8161354	A	19960621	JP 94306105	A	19941209	199635 B
JP 2970443	B2	19991102	JP 94306105	A	19941209	199951

Priority Applications (No Type Date): JP 94306105 A 19941209

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 8161354	A	17		G06F-017/30	
JP 2970443	B2	17		G06F-017/30	Previous Publ. patent JP 8161354

Abstract (Basic): JP 8161354 A

The appts. has a language processor (13) which receives the analysis result showing the component and the syntax pattern of an input sentence from a user. An extended rule memory (16) stores the extended rule of the input sentence component and the syntax pattern. A reference memory (15) stores the extended rule contents to each input sentence component based on the analysis result.

An extended unit (14) receives the extended contents, and a reference condition generation unit (17) forms the reference conditions corresp. to the extended contents. A reference unit (18) searches a document according to the reference conditions.

USE/ADVANTAGE - For e.g. electronic mail, electronic catalogue and electronic publication. Easily corresponds to syntax positioning in input sentence of component e.g. purpose rank, place rank, main units and predicate. Increases reference precision and efficiency due to extended reference conditions.

Dwg.1/8

Title Terms: DOCUMENT ; REFERENCE ; APPARATUS; WORD; PROCESSOR; OFFICE; COMPUTER; REFERENCE ; MEMORY; STORAGE; EXTEND; CONTENT; INPUT; SENTENCE; COMPONENT; BASED; ANALYSE; RESULT; REFERENCE ; UNIT; SEARCH; DOCUMENT ; BASED; REFERENCE ; CONDITION; CORRESPOND; EXTEND; CONTENT

Derwent Class: T01

International Patent Class (Main): G06F-017/30

International Patent Class (Additional): G06F-017/21

File Segment: EPI

11/5/19 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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009280277 **Image available**

WPI Acc No: 1992-407688/199250

XRPX Acc No: N92-310992

**Data-flow dependency back - tracking method for expert reasoning system
- constituting virtual machine operated by host computer processor and
solving problems input by interpreting stored logic programs by Proof
Procedure**

Patent Assignee: UNIV SIMON FRASER (UYFR-N)

Inventor: HAVENS W S

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
CA 2063974	A	19920926	CA 2063974	A	19920325	199250 B

Priority Applications (No Type Date): US 91675538 A 19910325

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
CA 2063974	A	50		G06F-015/18	

Abstract (Basic): CA 2063974 A

The method involves refining the domain of possible values of a logical variable within a predefined set of hypothetical logical constraints and involves propagating an Event. The Event consists of a pair, a Binding and a Label. The term ''binding'' refers to the domain or set of possible values that a variable could equal to be ''bound'' to. A new binding represents the new domain of a variable after some change has occurred in the old domain or the old binding of the variable.

A Label is the set of rules of Horn Clause choices that caused the new binding to occur. The new binding is used during the Proof Procedure and the Label is used during Intelligent Back - tracking . The Invention is a component of the Dataflow Dependency Backtracking Mechanism (''DDBM''), which is an expert system reasoning engine (Havens91a). The DDBM exists in software form and is realised in the programming language of the Echidna Constraint Logic Programming (CLP) system.

USE/ADVANTAGE - E.g. for CAD system, real-time process control and knowledge-based diagnosis. Combines technologies of logic programming, constraint reasoning and intelligent back - tracking . Resets status of all Horn Clause choices upon any failure, and restores failed clauses which may succeed with different parameter or constraints.

Dwg.4/15

Title Terms: DATA; FLOW; DEPEND; BACK; TRACK; METHOD; EXPERT; SYSTEM;
CONSTITUTE; VIRTUAL; MACHINE; OPERATE; HOST; COMPUTER; PROCESSOR; SOLVING
; PROBLEM; INPUT; INTERPRETATION; STORAGE; LOGIC; PROGRAM; PROOF;
PROCEDURE

Derwent Class: T01

International Patent Class (Main): G06F-015/18

File Segment: EPI

Set	Items	Description
S1	981534	LINK? OR HYPERLINK? OR REFER?
S2	1203	HORN()CLAUSE? OR HORNCLAUSE? OR PREDICAT?
S3	311509	BACKTRACK? OR BACK()TRACK? OR REVERSE?
S4	2	ATOM?()PREDICAT?
S5	10397	HTML? OR MARKUP()LANGUAGE? OR XML OR HYPERTEXT? OR WWW OR -
S6	6	ABSTRACT()LINK?
S7	2	S6 AND (S2 OR S3)
S8	0	S5 AND S6
S9	4	S6 NOT S7
S10	4	IDPAT (sorted in duplicate/non-duplicate order)
S11	3	IDPAT (primary/non-duplicate records only)

File 347:JAPIO Oct 1976-2003/Sep(Updated 040105)
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File 350:Derwent WPIX 1963-2004/UD,UM &UP=200402
(c) 2004 Thomson Derwent

11/5/1 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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015321410 **Image available**
WPI Acc No: 2003-382345/200336
XRPX Acc No: N03-305459

Control system for an agricultural operation for environmental control has control computer that manages sensor data and affects the state of the hardware devices
Patent Assignee: OCCIDENTAL FOREST FARMS LLP (OCCI)
Inventor: DOLGOFF A; LAREAU D
Number of Countries: 101 Number of Patents: 001
Patent Family:
Patent No Kind Date Applcat No Kind Date Week
WO 200338531 A1 20030508 WO 2002US34983 A 20021031 200336 B

Priority Applications (No Type Date): US 2001336276 P 20011031

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
WO 200338531 A1 E 90 G05B-011/01
Designated States (National): AE AG AL AM AT AU AZ BA BB BG BR BY BZ CA
CH CN CO CR CU CZ DE DK DM DZ EC EE ES FI GB GD GE GH GM HR HU ID IL IN
IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MA MD MG MK MN MW MX MZ NO NZ
OM PH PL PT RO RU SD SE SG SI SK SL TJ TM TN TR TT TZ UA UG US UZ VC VN
YU ZA ZM ZW
Designated States (Regional): AT BE BG CH CY CZ DE DK EA EE ES FI FR GB
GH GM GR IE IT KE LS LU MC MW MZ NL OA PT SD SE SK SL SZ TR TZ UG ZM ZW

Abstract (Basic): WO 200338531 A1

NOVELTY - The system includes control-related elements, including one or more sensors that may sense one or more environmental conditions, and one or more devices that may effect the environmental conditions. Optionally one or more variables and the control-related elements are collectively referred to as linkable entities. A control computer manages sensor data and affects the state of the hardware devices. Machine executable programs of instructions include a control process that provides for **abstract linkages** and relationships to be implemented among the linkable entities.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following:

(a) a method for controlling an agricultural operation;
(b) an article of manufacture embodying a program of instruction executable by a machine.

USE - For environmental control system.

ADVANTAGE - Provides hardware and software package that controls environmental and other conditions such as those in greenhouses.

DESCRIPTION OF DRAWING(S) - The figure shows a GUI that shows a sensors dialog box.

pp; 90 DwgNo 10/18

Title Terms: CONTROL; SYSTEM; AGRICULTURE; OPERATE; ENVIRONMENT; CONTROL;

CONTROL; COMPUTER; MANAGE; SENSE; DATA; AFFECT; STATE; HARDWARE; DEVICE

Derwent Class: T01; T06; W01; W05

International Patent Class (Main): G05B-011/01

File Segment: EPI

11/5/2 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX
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014143555 **Image available**
WPI Acc No: 2001-627766/200173
XRPX Acc No: N01-468097

Route selection optimizing method in asynchronous transfer mode communication system, involves aggregating multiple parallel links between branch points having best topology parameters, into abstract link

Patent Assignee: TELEFONAKTIEBOLAGET ERICSSON L M (TELF); OSTER G (OSTE-I); SONG J Z (SONG-I)
 Inventor: OESTER G; ZEYU SONG J; OSTER G; SONG J Z
 Number of Countries: 026 Number of Patents: 002
 Patent Family:
 Patent No Kind Date Applicat No Kind Date Week
 EP 1135000 A1 20010919 EP 2000105723 A 20000317 200173 B
 US 20010030962 A1 20011018 US 2001808134 A 20010315 200173

Priority Applications (No Type Date): EP 2000105723 A 20000317

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes
 EP 1135000 A1 E 14 H04Q-011/04
 Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT
 LI LT LU LV MC MK NL PT RO SE SI
 US 20010030962 A1 H04L-012/28

Abstract (Basic): EP 1135000 A1

NOVELTY - A link having most favorable topology metric value (TM) and a link having most favorable topology attribute value (TA) are selected from a set of parallel links (L1-L3) between two branch points (B,E). The selected links are aggregated to form an **abstract link** (SUPER) between that branch points. The **abstract link** is represented by the best TA and TM.

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is also included for route selection optimizing arrangement in communication system.

USE - For optimizing the route selection in an asynchronous transfer mode (ATM) communication system.

ADVANTAGE - A route selection is optimized for communication system having multiple parallel links between two branch points within the route, by using an **abstract link** between the two branch points, having best topology parameters.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of an ATM based communication system having single links in between and nodes with multiple parallel links in between.

Branch points (B,E)
 Parallel links (L1-L3)
Abstract link (SUPER)
 pp; 14 DwgNo 2/4

Title Terms: ROUTE; SELECT; METHOD; ASYNCHRONOUS; TRANSFER; MODE; COMMUNICATE; SYSTEM; AGGREGATE; MULTIPLE; PARALLEL; LINK; BRANCH; POINT; TOPOLOGICAL; PARAMETER; ABSTRACT; LINK

Derwent Class: W01

International Patent Class (Main): H04L-012/28; H04Q-011/04

File Segment: EPI

11/5/3 (Item 3 from file: 350)

DIALOG(R) File 350:Derwent WPIX
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011194309 **Image available**

WPI Acc No: 1997-172234/199716

XRXPX Acc No: N97-142163

Routing system using physical and logical links for ATM communication in network - in which abstract link state is made to be in accordance with link topology which configures network, by distributing abstract link state information to all switches

Patent Assignee: NEC CORP (NIDE)

Inventor: IWATA A

Number of Countries: 003 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
JP 9036873	A	19970207	JP 95182320	A	19950719	199716 B
CA 2181425	A	19970120	CA 2181425	A	19960717	199721
US 5687168	A	19971111	US 96680678	A	19960716	199751
CA 2181425	C	20020430	CA 2181425	A	19960717	200237

Priority Applications (No Type Date): JP 95182320 A 19950719

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 9036873	A		13	H04L-012/28	
CA 2181425	A			H04L-012/56	
US 5687168	A		14	H04L-012/28	
CA 2181425	C E			H04L-012/56	

Abstract (Basic): JP 9036873 A

The system includes a protocol unit to switch with which, each link (62) connecting adjacent switches, is connected. a link abstraction part (67) establishes an **abstract link**, packing those links connected to the same switch into single virtual link. The information relating to the link state is synthesised and the **abstract link** state is identified.

The **abstract link** state is made to be in accordance with the link topology already existing in the network, by distributing **abstract link** state information to all switches in the network. thus, several link states come to be represented as **abstract links**.

ADVANTAGE - Reduces information content to be distributed. Shortens distribution time. Facilitates reliable information distribution.

Dwg.5/9

Title Terms: ROUTE; SYSTEM; PHYSICAL; LOGIC; LINK; ATM; COMMUNICATE; NETWORK; ABSTRACT; LINK; STATE; MADE; ACCORD; LINK; TOPOLOGICAL; CONFIGURATION; NETWORK; DISTRIBUTE; ABSTRACT; LINK; STATE; INFORMATION; SWITCH

Derwent Class: W01

International Patent Class (Main): H04L-012/28; H04L-012/56

International Patent Class (Additional): H04Q-003/00

File Segment: EPI